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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,191	01/26/2004	Masahito Nasu	1466.1083	6426
²¹¹⁷¹ STAAS & HA I	7590 02/02/200 LSEY LLP	EXAMINER		
SUITE 700			LO, SUZANNE	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2128	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/763,191	NASU, MASAHITO		
Office Action Summary	Examiner	Art Unit		
	SUZANNE LO	2128		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with th	e correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION (a). In no event, however, may a reply but will apply and will expire SIX (6) MONTHS for te, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 24 for 2a) This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters,			
Disposition of Claims				
4) Claim(s) 1,2 and 6-9 is/are pending in the appear 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,2 and 6-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 26 January 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the E	e: a)⊠ accepted or b)⊡ objected or b)⊡ objected drawing(s) be held in abeyance. Action is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:			

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DETAILED ACTION

1. Claims 1-2 and 6-9 have been presented for examination. The Request for Continued Examination submitted 11/24/08 has been acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-2 and 6-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what is meant by "in advance" in the claim limitation "adding, in advance, as part information" as it is unclear what the adding of part information is in advance of.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-2 and 6-9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Unigraphics Solutions™ ("User's Guide Getting Started with SOLID EDGE™ Ver. 8.0").

As per claim 1, Unigraphics is directed to a partial reprojection method for reflecting for use in a three-dimensional CAD system, the method comprising: generating a two-dimensional projection by projecting an assembly model *formed of a plurality of parts* (page 258 Drawing Production); grouping

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two-dimensional elements in the two-dimensional projection for each part of the assembly model (page 274, Documenting Multiple Parts in One Draft Document and page 150, "Maintaining Relationships" and "How Relationships Work"); adding, in advance, attributes of each part of the assembly model to the two-dimensional projection as part information required for a reprojection, the part information including a line of sight, and a position of each part of the assembly model, the part information being obtained when the assembly model is projected (page 296 Annotations and Associativity and page 269 Setting Projection Angle for line of sight, page 280 "When you change parts and assemblies in part views, you can easily update the views so they match the new model geometry.", page 278-279 Drawing views for Parts in Assemblies on pages 231 and 258); loading a modified three-dimensional part model generated by modifying a shape of a three-dimensional part model that is part of the assembly model (page 280, Part View Updates); deciding a projecting direction of the modified there-dimensional part model based on a line of sight of a part to be reprojected included in the part information (page 280, Part View Updates, 2-D diagram drawing); deciding a generating position of the two-dimensional elements of the modified three-dimensional part model based on a position of the part to be reprojected included in the part information (page 280, Part View Updates, 2-D diagram drawing); and performing, based on the decided projecting direction and the decided generating position, the reprojection of the modified three-dimensional part model to generate a modified twodimensional projection (page 280, Part View Updates).

As per claim 2, Unigraphics is directed to the partial reprojection method according to claim 1, further comprising: adding to the two-dimensional projection, projection information including information about a loaded model and a projected model (page 282-283 Retrieving Dimensions and Annotations and page 280, 2nd paragraph, "When a drawing view is out-of-date with respect to the 3-D model..."); and deciding which should be performed, an entire reprojection based on the assembly model or a partial reprojection based on the modified three-dimensional part model in accordance with

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the projection information (page 282 Setting Retrieval Options, pages 258 Drawing view, page 232 Update options), wherein: if the partial reprojection is decided to be performed, only the shape is changed and the part information and the projection information are not changed; (page 282-283 Dimension Retrieval); and if the entire reprojection is decided to be performed, a projection direction of the assembly model is decided based on the projection information (page 261, Setting the Projection Angle).

As per claims 6-7, Unigraphics is directed to a computer-readable medium storing a program for a three-dimensional CAD system that enables reflection of a shape modified in a part model on a two-dimensional projection generated from an assembly model, the program causing a computer perform the method steps of claims 1-2 and are therefore rejected under the same prior art.

As per claim 8, Unigraphics is directed to a partial reprojection method for reflecting for use in a three-dimensional CAD system, the method comprising: generating a two-dimensional projection by projecting an assembly model formed of a plurality of parts (page 258 Drawing Production); grouping two-dimensional elements in the two-dimensional projection for each part of the assembly model (page 274, Documenting Multiple Parts in One Draft Document and page 150, "Maintaining Relationships" and "How Relationships Work"); adding, in advance, attributes of each part of the assembly model to the two-dimensional projection as part information required for a reprojection, the part information including a line of sight, and a position of each part of the assembly model, the part information being obtained when the assembly model is projected (page 296 Annotations and Associativity and page 269 Setting Projection Angle for line of sight, page 280 "When you change parts and assemblies in part views, you can easily update the views so they match the new model geometry.", page 278-279 Drawing views for Parts in Assemblies on pages 231 and 258); loading a modified three-dimensional part model generated by modifying a shape of a three-dimensional part model that is part of the assembly model (page 280, Part View Updates); deciding a projecting direction of the

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modified there-dimensional part model based on a line of sight of a part to be reprojected included in the part information (page 280, Part View Updates, 2-D diagram drawing); deciding a generating position of the two-dimensional elements of the modified three-dimensional part model based on a position of the part to be reprojected included in the part information (page 280, Part View Updates, 2-D diagram drawing); and performing, based on the decided projecting direction and the decided generating position, the reprojection of the modified three-dimensional part model to generate a modified two-dimensional projection of the assembly model reflecting modifications included in the modified three-dimensional part model (page 280, Part View Updates).

As per claim 9, Unigraphics is directed to the partial reprojection method according to claim 1, further comprising: adding to the two-dimensional projection, projection information including information about a loaded model and a projected model (page 282-283 Retrieving Dimensions and Annotations and page 280, 2nd paragraph, "When a drawing view is out-of-date with respect to the 3-D model..."); and deciding, in accordance with the projection information, which should be performed, an entire reprojection based on the assembly model or a partial reprojection based on the assembly model or a partial reprojection based on the modified three-dimensional part model so as to reflect the modification included in the modified three-dimensional part model (page 282 Setting Retrieval Options, pages 258 Drawing view, page 232 Update options), wherein: if the partial reprojection is decided to be performed, only the shape is changed and the part information and the projection information are not changed; (page 282-283 Dimension Retrieval); and if the entire reprojection is decided to be performed, a projection direction of the assembly model is decided based on the projection information (page 261, Setting the Projection Angle).

Response to Arguments

4. Applicant's arguments filed 11/24/08 have been fully considered but they are not persuasive.

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5. The 35 U.S.C. 112 rejection in regards to "in advance" is maintained as it is still unclear what it is in advance of. All other 112 rejections have been withdrawn due to the amended claims.

6. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., page 6-7, line of sight represents how each view of each part is viewed in the assembly as exemplified in Fig. 8 of the present application, the part information is added to the two-dimensional projection of each part when the assembly model formed of a plurality of parts is projected, attributes added to the assembly model in advance to the two-dimensional projection as part information required for a reprojection) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). The part information is added in advance but it is unclear in advance of what. While the part information is being obtained when the assembly model is projected, it is not necessarily added to the projection.

In response to Applicant's argument that hole tables doe not anticipating generating a twodimensional projection by projecting an assembly model formed by a plurality of parts, the Applicant is now directed to page 280 and 282-285 wherein assemblies are projected in parts and drawing views.

In response to Applicant's argument that Unigraphics does not disclose decided which projection should be performed, the Applicant is directed to Update options on page 232.

Conclusion

- 7. The prior art made of record is not relied upon because it is cumulative to the applied rejection.

 These references include:
 - 1. U.S. Patent No. 5,649,076 issued to Nishizaka et al. on 07/15/97.
 - 2. U.S. Patent No. 7,016,749 B2 issued to Kuzumaki et al. on 03/21/06.

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3. U.S. Patent No. 7,039,469 B1 issued to Haws et al. on 05/02/06.

4. U.S. Patent Application Publication US2003/0071810 A1 published by Shoov et al. on

04/17/03.

5. U.S. Patent No. 6,611,725 B1 issued to Harrison et al. on 08/26/03.

8. All Claims are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Suzanne Lo whose telephone number is (571)272-5876. The examiner can normally be reached on M-F,

8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah

can be reached on (571)272-2297. The fax phone number for the organization where this application or proceeding

is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information

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you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kamini S Shah/

Supervisory Patent Examiner, Art Unit 2128

/SL/ 01/28/09